



1199956 - R8 SDMS

URS OPERATING SERVICES

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December 18, 2009

Ms. Margaret Williams
Site Assessment Manager
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street, Mail Code: 8EPR-B
Denver, Colorado 80202-1129

SUBJECT: START3, EPA Region 8, Contract No. EP-W-05-050, TDD No. 0911-04 Data Validation Reports for Block 35 Methylene Chloride Plume, Salt Lake City, Utah

Dear Margaret:

Attached are copies of the Data Validation Reports for the Block 35 Methylene Chloride Plume site in Salt Lake City, Utah. The reports are for Case Number 38726 and Sample Delivery Groups (SDGs) H2FT0, and H2FW1. The data validation was performed by our subcontractor, TechLaw. Copies of the Data Validation Reports were also forwarded to Dale Urban with the Utah Department of Environmental Quality.

If you have any questions, please call me at 303-291-8209.

Very truly yours,

URS OPERATING SERVICES, INC.



Kenton J. Alexander
Senior Chemist / Subcontracts Manager

cc: Chuck Baker/UOS (w/o attachment)
Dale Urban UDEQ-OERR
File/UOS

**REGION VIII
DATA VALIDATION REPORT
ORGANICS**

Case/TDD No.	Site Name		Operable Unit
38726 / 0911-04	Block 35 Methylene Chloride Plume		
RPM/OSC Name			
Margaret Williams			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
KAP Technologies, Inc.	EPW05032	H2FT0	

Review Assigned Date: December 2, 2009 Data Validator: Lisa Tyson
Review Completion Date: December 9, 2009 Report Reviewer: Bill Fear

Sample ID	Matrix	Analysis
H2FT0	Water	CLP – Trace Volatile Analyses by SOM01.2
H2FT1		
H2FT2		
H2FT3		
H2FT4		
H2FT5		
H2FT6		
H2FT7		
H2FT8		
H2FT9		
H2FW0		
H2FX0		

DATA QUALITY STATEMENT

- () Data are ACCEPTABLE according to EPA Functional Guidelines with no qualifiers (flags) added by the reviewer.
- () Data are UNACCEPTABLE according to EPA Functional Guidelines.
- () Data are acceptable with QUALIFICATIONS noted in review.

PO Attention Required? Yes _____ No X If yes, list the items that require attention:

ORGANIC DATA VALIDATION REPORT**REVIEW NARRATIVE SUMMARY**

This data package was reviewed according to the EPA document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-20% of the results reported in each of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

The data package, SDG No. H2FT0 consisted of 12 water samples for CLP trace volatile organic analyses by SOM01.2.

The following tables list data qualifiers added to the data. (Please see Data Qualifier Definitions, attached to the end of this report.)

Sample Number	Volatile Compound	Qualifier	Reason For Qualification	Review Section
H2FT4, H2FT5, H2FT6, H2FT7, H2FT8, H2FT9, H2FW0, H2FX0	Bromomethane Bromoform	UJ	Continuing calibration %D greater than 30%	4
H2FT2, H2FT3, H2FT8	Dichlorodifluoromethane Chloromethane Bromomethane Chloroethane Carbon disulfide	UJ	Low DMC recovery	5
H2FT5	Methylene chloride	J	Elevated DMC recovery	
H2FT7	Methylcyclohexane Toluene o-Xylene m,p-Xylene Isopropylbenzene			
H2FT1, H2FT3	All compounds*	J detects	High internal standard area count	7
H2FT2	Methylene chloride	J		
H2FT4, H2FT5, H2FT6, H2FT8, H2FT9, H2FX0	Methylene chloride	U	Method blank contamination	8

* Note that methylcyclohexane was reported from diluted analysis in sample H2FT3 and the diluted result did not result in qualification.

1. DELIVERABLES

All deliverables were present as specified in the subcontract.

VOA: Yes X No _____

Comments: None.

2. HOLDING TIMES AND PRESERVATION CRITERIA

All holding times and preservation criteria were met.

VOA: Yes X No _____

Comments: The samples were analyzed within 14 days from sample collection. The sample coolers were received within the temperature criteria of 4 ± 2 °C. No shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.

3. BFB PERFORMANCE RESULTS

The bromofluorobenzene (BFB) performance results were within the specified control limits. All appropriate BFB results were included.

VOA: Yes X No _____

Comments: BFB instrument performance checks were run at the required frequency. Ion abundance criteria were met and were verified from raw data.

4. INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS

Initial instrument calibrations were performed according to method requirements and met the project specified control limits.

VOA: Yes X No _____

Comments: Initial calibration standards containing both target compounds and the deuterated monitoring compounds (DMCs) were analyzed at the correct frequency. The average relative response factors (RRFs) for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 and the RRFs for all other target compounds were greater than or equal to 0.05. The percent relative standard deviations (%RSDs) of the RRFs were less than or equal to 40% for the poor responders and less than or equal to 30% for all other analytes. Summary forms and raw data were evaluated.

Continuing instrument calibrations were performed according to method requirements and met project specified control limits.

VOA: Yes No X

Comments: Continuing calibration standards containing both target compounds and the DMCs were analyzed at the beginning and end of each 12-hour analysis period. The RRFs for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 and the RRFs for all other target compounds were greater than or equal to 0.05. The opening standard percent differences (%Ds) of the RRFs were less than or equal to 40% for the poor responders and less than or equal to 30% for all other analytes with the exceptions noted below. All %Ds for the closing standards were less than 50%. Summary forms and raw data were evaluated.

The following table lists the %Ds that were greater than 30% and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
Bromomethane	30.4%	H2FT4, H2FT5, H2FT6, H2FT7, H2FT8, H2FT9, H2FW0, H2FX0	UJ
Bromoform	30.1%		

5. DEUTERATED MONITORING COMPOUNDS

Deuterated monitoring compound (DMC) recovery analysis was performed according to method requirements and results met specified control limits.

VOA: Yes No X

Comments: DMCs were added to all samples and blanks. Summary forms and raw data were evaluated.

The following table lists the samples with DMC percent recoveries (%Rs) outside control limits and the qualifiers added to the data:

Sample Number	DMC	%R	QC Limits	Compounds	Qualifiers
H2FT2	Chloroethane-d5	69%	71-131%	Dichlorodifluoromethane	UJ
H2FT3		56%		Chloromethane	
H2FT8		70%		Bromomethane Chloroethane Carbon disulfide	

Sample Number	DMC	%R	QC Limits	Compounds	Qualifiers
H2FT5	1,2-Dichloroethane-d4	137%	78-129%	Trichlorofluoromethane 1,1,2-Trichloro-1,2,2-trifluoroethane Methyl acetate Methylene chloride Methyl-tert-butyl ether 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dibromoethane 1,2-Dichloroethane	J detects (only methylene chloride detected)
H2FT7	1,2-Dichloropropane-d6	129%	79-124%	Cyclohexane Methylcyclohexane 1,2-Dichloropropane Bromodichloromethane	J detects (only methylcyclohexane detected and reported)
H2FT7	Toluene-d8	141%	77-121%	Trichloroethene Toluene Tetrachloroethene Ethylbenzene o-Xylene m,p-Xylene Styrene Isopropylbenzene	J detects (only toluene, o-xylene, m,p-xylene, and isopropylbenzene detected and reported)
H2FT5 H2FT6	1,1-Dichloroethene-d2	116% 109%	55-104%	Trans-1,2-dichloroethene 1,1-Dichloroethene Cis-1,2-dichloroethene	None
H2FT7	Chloroform-d	123%	78-121%	1,1-Dichloroethane Bromochloromethane Chloroform Dibromochloromethane Bromoform	None
H2FT3 H2FT7	Trans-1,3-dichloropropene-d4	139% 164%	73-121%	Cis-1,3-dichloropropene Trans-1,3-dichloropropene 1,1,2-Trichloroethane	None
H2FT7	1,1,2,2-Tetrachloroethane-d2	158%	73-125%	1,1,2,2-Tetrachloroethane 1,2-Dibromo-3-chloropropane	None
H2FT7DL	1,1,2,2-Tetrachloroethane-d2	142%	73-125%	1,1,2,2-Tetrachloroethane 1,2-Dibromo-3-chloropropane	These compounds not reported from this analysis
H2FT7RE	Chloroethane-d5 1,2-Dichloroethane-d4 1,2-Dichloropropane-d6 Toluene-d8 Trans-1,3-DCP-d4 1,1,2,2-PCA-d2	62% 153% 138% 128% 167% 130%	71-131% 78-129% 79-124% 77-121% 73-121% 73-125%	Various	Sample results not used

It should be noted that sample H2FT7 was reanalyzed due to poor DMC recoveries. As indicated in the table above, the DMC recoveries in the reanalysis did not improve and the results should not be used.

The MS/MSD analyses also reported DMC recoveries outside QC limits; however, no qualification is taken on QC samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

VOA: Yes No X

Comments: Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on sample H2FT3. The percent recoveries and the relative percent differences (RPDs) were within the appropriate QC limits, with the following exceptions. The RPDs for trichloroethene (29%), toluene (39%), and chlorobenzene (17%) exceeded control limits. No qualification is taken based solely on MS/MSD data. Summary forms and raw data were evaluated.

7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

VOA: Yes No X

Comments: Internal standard area counts did not vary by more than 40% from the associated 12-hour calibration standard, with the exceptions noted below. The internal standard retention times did not vary more than \pm 0.33 minutes from the retention time of the associated 12-hour calibration standards. Summary forms and raw data were evaluated. The following table lists internal standards whose area counts were less than \pm 40% from the area counts of the associated 12-hour calibration standards and the qualifiers added to the data:

Sample Number	Internal Standard	Low/High/ Extremely Low	Compounds	Qualifiers
H2FT1, H2FT3	Chlorobenzene-d5 1,4-Difluorobenzene 1,4-Dichlorobenzene-d4	High	All compounds*	J detects
H2FT2	Chlorobenzene-d5 1,4-Difluorobenzene	High	Detected associated compounds	J detects (only methylene chloride detected)

* Note that methylcyclohexane was reported from diluted analysis in sample H2FT3 and the diluted result did not result in qualification.

The internal standard area count for 1,4-dichlorobenzene-d4 was also high in sample H2FT0; however, compounds associated with this internal standard were not detected in the sample and no qualification was necessary.

All internal standard area counts were high in the MS/MSD analyses; however, no qualification is taken on QC samples.

8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified limits.

VOA: Yes No X

Comments: Method blank analyses were performed after the calibration standards and once for every 12-hour time period. A storage blank (VHBLK03) and an instrument blank (VIBLK08) were also analyzed. Summary forms and raw data were evaluated.

Contamination was detected in the method blanks as summarized in the following table. Quantitation limits in the associated samples were raised in accordance with the rules set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Blank Target Compounds

Blank ID	Contaminant	Concentration Found in Blank (ug/L)	Associated Samples	Concentration Found in Sample (ug/L)	Qualifier/ Adjustment
VBLK89	Methylene chloride	0.44	H2FT4 H2FT5 H2FT6 H2FT8 H2FT9 H2FX0	<CRDL	0.50 U

Method blank VBLK89 also reported chloromethane at 0.26 ug/L; however, the associated sample results were either non-detect or greater than the action level and no qualification was necessary.

The storage blank also reported toluene at 0.17 ug/L; however, the associated sample results were greater than the action level and no qualification was necessary. The instrument blank did not report any detected target compounds.

9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

VOA: Yes X No

Comments: Sample relative retention times (RRTs) were within ± 0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within $\pm 20\%$ between standard and sample spectra. All samples results and CRQL were correctly calculated.

The result for methylcyclohexane in sample H2FT3 exceeded the calibration range in the original undiluted analysis and was flagged "E" by the laboratory. This sample was reanalyzed at a 5x dilution and the result was within calibration range. Therefore, the result for methylcyclohexane should be reported from the diluted analysis and all other results reported from the original undiluted analysis of sample H2FT3.

The results for cyclohexane and benzene in sample H2FT7 exceeded the calibration range in the original undiluted analysis and was flagged "E" by the laboratory. This sample was reanalyzed at a 10x dilution and the results were within calibration range. Therefore, the results for cyclohexane and benzene should be reported from the diluted analysis and all other results reported from the original undiluted analysis of sample H2FT7.

Tentatively identified compounds (TICs) were qualitatively assessed by a mass spectral library search. No qualification was applied to the TICs.

10. Additional Comments or Problems/Resolutions Not Addressed Above

VOA: Yes No X

Comments: None.

ORGANIC DATA QUALITY ASSURANCE REVIEW**Region VIII****DATA QUALIFIER DEFINITIONS**

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality.

GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R - Reported value is "rejected." Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- J - The associated numerical value is an estimated quantity because the Quality Control criteria were not met.
- U J - The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound was not detected.
- N J - Estimated value of a tentatively identified compound. (Identified with a CAS number.) ORGANICS analysis only.
- U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT0

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.01

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02416

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	14	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorodifluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.54	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.49	J
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 17/07

0025

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FTO

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FTO

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.01

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02416

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.62	
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.28	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	15	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

✓ 17/7/09

0026

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT0

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER) WATER		Lab Sample ID: S-2508.01	
Sample wt/vol: 25.00 (g/mL) ML		Lab File ID: G02416	
Level: (TRACE or LOW/MED) TRACE		Date Received: 07/17/2009	
% Moisture: not dec. _____		Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000565-59-3	Pentane, 2,3-dimethyl-	6.62	60	NJ
02	Unknown-01	7.24	41	J
03	Unknown-02	8.51	9.2	J
04 004850-28-6	Cyclopentane, 1,2,4-trimethyl	8.76	10.	NJ
05 000565-75-3	Pentane, 2,3,4-trimethyl-	9.09	30	NJ
06 000560-21-4	Pentane, 2,3,3-trimethyl-	9.28	48	NJ
07	Unknown-03	10.74	12	J
08 000103-65-1	Benzene, propyl-	14.74	70	NJ
09 000104-51-8	Benzene, butyl-	15.55	26	NJ
10	Unknown-04	15.55	13	J
11 000637-50-3	Benzene, 1-propenyl-	16.05	71	NJ
12 000141-93-5	Benzene, 1,3-diethyl-	16.12	36	NJ
13 000527-84-4	Benzene, 1-methyl-2-(1-methyl	16.55	13	NJ
14 001005-64-7	Benzene, 1-butenyl-, (E)-	16.59	16	NJ
15 007525-62-4	Benzene, 1-ethenyl-3-ethyl-	16.65	64	NJ
16 004912-92-9	1H-Indene, 2,3-dihydro-1,1-di	16.84	12	NJ
17 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	16.97	88	NJ
18 017059-48-2	1H-Indene, 2,3-dihydro-1,6-di	17.07	13	NJ
19 056253-64-6	Benzene, (2-methyl-1-butenyl)	17.22	37	NJ
20 004175-53-5	1H-Indene, 2,3-dihydro-1,3-di	17.28	13	NJ
21 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	17.44	8.9	NJ
22 020836-11-7	1H-Indene, 2,3-dihydro-2,2-dim	17.69	26	NJ
23 004706-90-5	Benzene, 1,3-dimethyl-5-(1-me	17.75	19	NJ
24	Unknown-05	17.79	19	J
25 004912-92-9	1H-Indene, 2,3-dihydro-1,1-di	17.83	15	NJ
26 004920-99-4	Benzene, 1-ethyl-3-(1-methyle	17.86	16	NJ
27 006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	18.55	22	NJ
28 017851-27-3	Benzene, 1-ethyl-2,4,5-trimet	18.71	14	NJ
29 001559-81-5	Naphthalene, 1,2,3,4-tetrahydro	18.76	11	NJ
30 005973-71-7	Benzaldehyde, 3,4-dimethyl-	18.95	16	NJ
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 17/7/09

0027

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.02
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02417
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/20/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	4.1	
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.28	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	16	
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 18/7/07

0070

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT1

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.02

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02417

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	2.4	
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.59	
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	8.5	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

0071

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT1

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.02	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02417	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000075-83-2	Butane, 2,2-dimethyl-	3.25	50	NJ
02 000079-29-8	Butane, 2,3-dimethyl-	3.80	160	NJ
03	Unknown-01	5.28	18	J
04	Unknown-02	5.43	80	J
05	Unknown-03	5.69	9.4	J
06 000562-49-2	Pentane, 3,3-dimethyl-	6.23	18	NJ
07 000565-59-3	Pentane, 2,3-dimethyl-	6.62	92	NJ
08 001638-26-2	Cyclopentane, 1,1-dimethyl-	6.81	18	NJ
09 000617-78-7	Pentane, 3-ethyl-	7.09	19	NJ
10	Unknown-04	7.24	65	J
11	Unknown-05	8.30	12	J
12	Unknown-06	8.43	11	J
13 000589-43-5	Hexane, 2,4-dimethyl-	8.51	13	NJ
14 000565-75-3	Pentane, 2,3,4-trimethyl-	9.09	21	NJ
15 000560-21-4	Pentane, 2,3,3-trimethyl-	9.28	28	NJ
16 000103-65-1	Benzene, propyl-	14.74	27	NJ
17 000538-93-2	Benzene, (2-methylpropyl)-	15.55	13	NJ
18	Unknown-07	15.55	9.5	J
19 000141-93-5	Benzene, 1,3-diethyl-	16.05	21	NJ
20 000105-05-5	Benzene, 1,4-diethyl-	16.12	9.2	NJ
21 000135-01-3	Benzene, 1,2-diethyl-	16.13	12	NJ
22 001074-55-1	Benzene, 1-methyl-4-propyl-	16.38	9.5	NJ
23 000527-84-4	Benzene, 1-methyl-2-(1-methyl	16.55	18	NJ
24 007525-62-4	Benzene, 1-ethenyl-3-ethyl-	16.65	20	NJ
25 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	16.97	24	NJ
26 002039-89-6	Benzene, 2-ethenyl-1,4-dimeth	17.23	15	NJ
27 006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	17.69	10	NJ
28 000700-12-9	Benzene, pentamethyl-	17.75	8.7	NJ
29 006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	18.54	12	NJ
30 005779-95-3	Benzaldehyde, 3,5-dimethyl-	18.95	27	NJ
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

18/7/07

N072

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT2

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.03

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02418

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.98	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 11/17/09

0115

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT2

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.03

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02418

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

✓ 17/7/09

0116

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT2

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.03	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02418	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.0	J
02	Benzaldehyde, 3,5-dimethyl-	18.96	3.8	NJ
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 17/7/09

0117

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT3

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.04

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02419

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorodifluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.55	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.93	
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 17/7/07

0133

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.04
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02419
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. Date Analyzed: 07/20/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	21	E
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	6.2	J
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Report Methylcyclohexane from
0.1%ed analysis

(result is not qualifed)
7/18/09

SOM01.2 (6/2007)

8134

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT3

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.04	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02419	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000565-59-3	Pentane, 2,3-dimethyl-	6.63	18	NJ
02 000560-21-4	Pentane, 2,3,3-trimethyl-	9.29	17	NJ
03 000473-91-6	Cyclopentene, 1,2,3-trimethyl	10.75	16	NJ
04	Unknown-01	14.56	16	J
05 000103-65-1	Benzene, propyl-	14.75	59	NJ
06	Unknown-02	15.55	50	J
07 000527-84-4	Benzene, 1-methyl-2-(1-methyl	15.70	19	NJ
08 000105-05-5	Benzene, 1,4-diethyl-	16.06	89	NJ
09 000141-93-5	Benzene, 1,3-diethyl-	16.13	36	NJ
10 000104-51-8	Benzene, butyl-	16.19	24	NJ
11 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl	16.56	120	NJ
12 000824-63-5	1H-Indene, 2,3-dihydro-2-meth	16.59	24	NJ
13 007525-62-4	Benzene, 1-ethenyl-3-ethyl-	16.66	94	NJ
14 056253-64-6	Benzene, (2-methyl-1-butenyl)	16.75	22	NJ
15 004912-92-9	1H-Indene, 2,3-dihydro-1,1-di	16.84	20	NJ
16 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	16.98	160	NJ
17 001595-16-0	Benzene, 1-methyl-4-(1-methyl	17.05	37	NJ
18 004701-36-4	Benzene, (1-ethyl-1-propenyl)	17.24	82	NJ
19 004175-53-5	1H-Indene, 2,3-dihydro-1,3-di	17.29	16	NJ
20 001758-85-6	Benzene, 2,4-diethyl-1-methyl	17.35	16	NJ
21 003454-07-7	Benzene, 1-ethenyl-4-ethyl-	17.42	66	NJ
22 002049-95-8	Benzene, (1,1-dimethylpropyl)	17.49	34	NJ
23 001075-22-5	1H-Indene, 2,3-dihydro-5,6-di	17.69	60	NJ
24 000700-12-9	Benzene, pentamethyl-	17.75	37	NJ
25 1000164-42-6	Bicyclo[4.2.1]nona-2,4,7-triene	17.79	35	NJ
26	Unknown-03	17.86	84	J
27	Unknown-04	18.13	17	J
28	Unknown-05	18.22	21	J
29 006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	18.35	25	NJ
30 006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	18.55	26	NJ
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/17/09

0135

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT3DL

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.04DL

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02435

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorodifluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	3.2	DB
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	25	U
74-97-5	Bromoform	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

Only report methylcyclohexane (230) from
this analysis.

SOM01.2 (6/2007)

07/18/2009

0177

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.04DL
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02435
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	2.5	U
108-87-2	Methylcyclohexane	23	D
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	6.4	D
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.8	D
120-82-1	1,2,4-Trichlorobenzene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U

Only report methylcyclohexane(230)
from this analysis

SOM01.2 (6/2007)

✓ 7/17/09
B178

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
 H2FT3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02435

Level: (TRACE or LOW/MED) TRACE Date Received: 07/17/2009

% Moisture: not dec. _____ Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000565-59-3	Pentane, 2,3-dimethyl-	6.62	200	DNJ
02	Unknown-01	7.24	170	DJ
03	Unknown-02	8.52	81	DJ
04 000565-75-3	Pentane, 2,3,4-trimethyl-	9.09	150	DNJ
05 000560-21-4	Pentane, 2,3,3-trimethyl-	9.28	220	DNJ
06	Unknown-03	9.47	70	DJ
07 000589-81-1	Heptane, 3-methyl-	9.65	110	DNJ
08 000103-65-1	Benzene, propyl-	14.75	91	DNJ
09 000135-01-3	Benzene, 1,2-diethyl-	16.06	130	DNJ
10 000527-84-4	Benzene, 1-methyl-2-(1-methyl	16.56	180	DNJ
11 007525-62-4	Benzene, 1-ethenyl-3-ethyl-	16.66	140	DNJ
12 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	16.97	240	DNJ
13 003454-07-7	Benzene, 1-ethenyl-4-ethyl-	17.24	120	DNJ
14 056253-64-6	Benzene, (2-methyl-1-but enyl)	17.69	100	DNJ
15	Unknown-04	17.86	81	DJ
16				
17				
18				
19				
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21				
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26				
27				
28				
29				
30				
E966796	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

8179

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT4

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.05

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02424

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

* Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.25	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

8207

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.05
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02424
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

7/17/09

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT4

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.05	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02424	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.7	JB
02	Unknown-02	14.41	2.1	J
03	Unknown-03	14.54	1.6	J
04				
05				
06				
07				
08				
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30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

07/17/09

0289

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.06
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02425
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

10/7/09
0226

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT5

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02425

Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009

% Moisture: not dec. Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

✓ 12/10/09

0227

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.06
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02425
 Level: (TRACE or LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	5.1	JB
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 12/7/09

0228

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT6

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.07

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02426

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.30	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

0243

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT6

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.07

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02426

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0. (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

✓12/7/09

0244

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT6

Lab Name:	KAP TECHNOLOGIES, INC.	Contract:	EPW05032			
Lab Code:	KAP	Case No.:	38726	Mod. Ref No.:	SDG No.:	H2FT0
Matrix:	(SOIL/SED/WATER)	WATER		Lab Sample ID:	S-2508.07	
Sample wt/vol:	25.00	(g/mL)	ML	Lab File ID:	G02426	
Level:	(TRACE or LOW/MED)	TRACE		Date Received:	07/17/2009	
% Moisture:	not dec.			Date Analyzed:	07/21/2009	
GC Column:	RTX-VMS	ID:	0.25 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)		Soil Aliquot Volume:	(uL)	
CONCENTRATION UNITS:	(ug/L or ug/Kg)	UG/L		Purge Volume:	25.0	(mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.9	JB
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 14/7/09

0245

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.08
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02427
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0. (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	1.7	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	89	E
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	62	E
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

Report cyclohexane and benzene
from diluted analysis

SOM01.2 (6/2007)

18/7/09
8268

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT7

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.08

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02427

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	13	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	2.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.91	
179601-23-1	m,p-Xylene	0.41	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

J 18/7/09

0261

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT7

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER) WATER		Lab Sample ID: S-2508.08	
Sample wt/vol: 25.00 (g/mL) ML		Lab File ID: G02427	
Level: (TRACE or LOW/MED) TRACE		Date Received: 07/17/2009	
% Moisture: not dec. _____		Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	1.99	11	J
02	Butane, 2-methyl-	2.46	29	NJ
03	Cyclopropane, 1,2-dimethyl-,	3.08	12	NJ
04	Unknown-02	3.80	9.1	J
05	Cyclopentane	3.83	26	NJ
06	2-Pentene, 3-methyl-, (E)-	5.05	4.6	NJ
07	Cyclopentane, methyl-	5.43	33	NJ
08	2-Butene, 2,3-dimethyl-	5.60	6.1	NJ
09	Cyclopentene, 1-methyl-	6.23	13	NJ
10	Pentane, 2,3-dimethyl-	6.62	17	NJ
11	Unknown-03	7.09	4.5	J
12	Unknown-04	7.24	4.4	J
13	Cyclopentane, 1,2,4-trimethyl	8.76	10	NJ
14	Cyclohexene, 1-methyl-	9.73	5.3	NJ
15	Cyclohexane, 1,1-dimethyl-	10.20	11	NJ
16	Cyclopentene, 1,2,3-trimethyl	10.74	5.2	NJ
17	Cyclohexane, 1,1,3-trimethyl-	11.63	6.0	NJ
18	Indan, 1-methyl-	16.65	5.3	NJ
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	11	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 10/10/09

0262

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.08DL
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02436
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.7	DB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	50	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	100	D
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	81	D
107-06-2	1,2-Dichloroethane	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

Only report cyclohexane and benzene (100 & 81D, resp.)
From this analysis

SOM01.2 (6/2007)

0296

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.08DL
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02436
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	16	D
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	4.4	DJ
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	21	D
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	12	D
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

SOM01.2 (6/2007)

✓ 18/7/09
0297

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT7DL

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP

Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.08DL

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02436

Level: (TRACE or LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Purge Volume: 25.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000078-78-4	Butane, 2-methyl-	2.48	160	DNJ
000930-18-7	Cyclopropane, 1,2-dimethyl-,	3.10	57	DNJ
000109-67-1	1-Pentene	3.84	98	DNJ
000096-37-7	Cyclopentane, methyl-	5.44	160	DNJ
000565-59-3	Pentane, 2,3-dimethyl-	6.63	57	DNJ
06	Unknown-01	10.14	56	DJ
07	Cyclohexane, 1,1,3-trimethyl-	11.64	75	DNJ
08	Unknown-02	14.41	93	DJ
09	Unknown-03	15.26	69	DJ
10	Unknown-04	15.42	61	DJ
11	Unknown-05	15.53	75	DJ
12	Unknown-06	15.80	78	DJ
13	Indan, 1-methyl-	16.65	77	DNJ
14	Dodecane, 6-methyl-	17.39	100	DNJ
15				
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30				
E966796 ¹	Total Alkanes	N/A	120	DJ

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

0298

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT7RE

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.08RE

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02438

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	2.3	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	64	E
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	68	E
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

Do not report

SOM01.2 (6/2007)

0328

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT7RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.08RE
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02438
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q UG/L
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	8.7	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	2.7	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.95	
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	9.5	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Do not report

SOM01.2 (6/2007)

0329

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT7RE

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.08RE

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02438

Level: (TRACE or LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Purge Volume: 25.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000096-37-7	Cyclopentane, methyl-	5.44	100	NJ
02 000563-79-1	2-Butene, 2,3-dimethyl-	5.60	19	NJ
03	Unknown-01	7.11	27	J
04	Unknown-02	7.25	20	J
05	Unknown-03	8.05	19	J
06	Unknown-04	9.94	30	J
07 000590-66-9	Cyclohexane, 1,1-dimethyl-	10.20	30	NJ
08 000103-65-1	Benzene, propyl-	14.75	22	NJ
09	Unknown-05	15.55	22	J
10 000496-11-7	Indane	16.05	49	NJ
11 007525-62-4	Benzene, 1-ethenyl-3-ethyl-	16.66	37	NJ
12 056253-64-6	Benzene, (2-methyl-1-but enyl)	17.23	19	NJ
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
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E966796 ¹	Total Alkanes	N/A	340	J

¹ EPA-designated Registry Number.

Do not report

SOM01.2 (6/2007)

5/17/09

0330

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT8

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.09

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02430

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorodifluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	11	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.26	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	5.0	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 18/7/09

0364

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.09
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02430
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

0365

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT8

Lab Name: KAP TECHNOLOGIES, INC.	Contract:	EPW05032
Lab Code: KAP	Case No.:	38726 Mod. Ref No.: SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.09
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02430
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009
% Moisture: not dec.		Date Analyzed: 07/21/2009
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.4	JB
02	Unknown-02	10.54	0.76	J
03				
04				
05				
06				
07				
08				
09				
10				
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26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/18/09

#366

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FT9

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.10

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02431

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	4.6	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.29	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 18/09

0382

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FT9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.10
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02431
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.25	J
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

0383

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FT9

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.10	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02431	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.13	4.7	J
02	Unknown-02	13.90	0.64	J
03	Unknown-03	15.53	0.87	J
04				
05				
06				
07				
08				
09				
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27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/17/09

0384

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.11
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02432
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 10/7/09
0461

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.11
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02432
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

✓ 18/7/09
9402

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW0

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.11	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02432	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.5	JB
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FX0

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: S-2508.12

Sample wt/vol: 25.00 (g/mL) ML

Lab File ID: G02433

Level: (TRACE/LOW/MED) TRACE

Date Received: 07/17/2009

% Moisture: not dec. _____

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	12	B
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	63	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	1.8	B
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	22	
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 12/17/09

0417

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
H2FX0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FT0
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2508.12
 Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G02433
 Level: (TRACE/LOW/MED) TRACE Date Received: 07/17/2009
 % Moisture: not dec. _____ Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	2.4	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.53	
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SOM01.2 (6/2007)

0418

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FX0

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FT0
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID: S-2508.12	
Sample wt/vol: 25.00	(g/mL) ML	Lab File ID: G02433	
Level: (TRACE or LOW/MED)	TRACE	Date Received: 07/17/2009	
% Moisture: not dec.	_____	Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Purge Volume: 25.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.14	4.4	JB
02	Benzaldehyde, 3,4-dimethyl-	18.96	26	NJ
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 18/7/09

0419

REGION VIII
DATA VALIDATION REPORT
ORGANICS

Case/TDD No.	Site Name		Operable Unit
38726 / 0911-04	Block 35 Methylene Chloride Plume		
RPM/OSC Name			
Margaret Williams			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
KAP Technologies, Inc.	EPW05032	H2FW1	

Review Assigned Date: December 2, 2009 Data Validator: Lisa Tyson
 Review Completion Date: December 9, 2009 Report Reviewer: Bill Fear

Sample ID	Matrix	Analysis
H2FW1	Soil	CLP – Volatile analyses by SOM01.2
H2FW2		
H2FW3		
H2FW4		
H2FW5		
H2FW6		
H2FW7		
H2FW8		
H2FW9		

DATA QUALITY STATEMENT

- Data are ACCEPTABLE according to EPA Functional Guidelines with no qualifiers (flags) added by the reviewer.
- Data are UNACCEPTABLE according to EPA Functional Guidelines.
- Data are acceptable with QUALIFICATIONS noted in review.

PO Attention Required? Yes _____ No X If yes, list the items that require attention:

ORGANIC DATA VALIDATION REPORT**REVIEW NARRATIVE SUMMARY**

This data package was reviewed according to the EPA document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-20% of the results reported in each of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

The data package, SDG No. H2FW1 consisted of nine soil samples for CLP volatile organic analyses by SOM01.2.

The following tables list data qualifiers added to the data. (Please see Data Qualifier Definitions, attached to the end of this report.)

Sample Number	Volatile Compound	Qualifier	Reason For Qualification	Review Section
All samples	Toluene	J/UJ	Initial calibration %RSD greater than 20%	4
H2FW1, H2FW2	Bromomethane	UJ	Continuing calibration %D greater than 25%	
All samples	Methylene chloride	U	Method blank contamination	8
H2FW1, H2FW2, H2FW4, H2FW5, H2FW7, H2FW8, H2FW9	Toluene			
H2FW2	Acetone			

1. DELIVERABLES

All deliverables were present as specified in the subcontract.

VOA: Yes X No _____

Comments: None.

2. HOLDING TIMES AND PRESERVATION CRITERIA

All holding times and preservation criteria were met.

VOA: Yes X No _____

Comments: The samples were analyzed within 14 days from sample collection. The sample coolers were received within the temperature criteria of 4 ± 2 °C. No shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.

3. BFB PERFORMANCE RESULTS

The bromofluorobenzene (BFB) performance results were within the specified control limits. All appropriate BFB results were included.

VOA: Yes X No _____

Comments: BFB instrument performance checks were run at the required frequency. Ion abundance criteria were met and were verified from raw data.

4. INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS

Initial instrument calibrations were performed according to method requirements and met the project specified control limits.

VOA: Yes _____ No X

Comments: Initial calibration standards containing both target compounds and the deuterated monitoring compounds (DMCs) were analyzed at the correct frequency. The average relative response factors (RRFs) for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 (0.005 for 1,4-dioxane). The RRFs for all other target compounds were greater than or equal to 0.05. The percent relative standard deviations (%RSDs) of the RRFs were less than or equal to 50% for 1,4-dioxane, 40% for the poor responders and less than or equal to 20% for all other analytes with the exception noted below. Summary forms and raw data were evaluated.

The following table lists the %RSD that was greater than 20% and qualifiers added to the data:

Compound	%RSD	Associated Samples	Qualifiers
Toluene	20.6%	All samples	J/UJ

Continuing instrument calibrations were performed according to method requirements and met project specified control limits.

VOA: Yes No X

Comments: Continuing calibration standards containing both target compounds and the DMCs were analyzed at the beginning and end of each 12-hour analysis period. The RRFs for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 (0.005 for 1,4-dioxane) and the RRFs for all other target compounds were greater than or equal to 0.05. The opening standard percent differences (%Ds) of the RRFs were less than or equal to 50% for 1,4-dioxane, 40% for the poor responders and less than or equal to 25% for all other analytes with the exception noted below. All %Ds for the closing standards were less than 50% and all RRFs with the exception of 1,4-dioxane were greater than 0.01. Summary forms and raw data were evaluated.

The following table lists the %Ds that were greater than 25% and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
Bromomethane	29.7%	H2FW1, H2FW2	UJ

5. DEUTERATED MONITORING COMPOUNDS

Deuterated monitoring compound (DMC) recovery analysis was performed according to method requirements and results met specified control limits.

VOA: Yes X No

Comments: DMCs were added to all samples and blanks. All DMC percent recoveries were within the QC limits. Summary forms and raw data were evaluated.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

VOA: Yes No X

Comments: Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on sample H2FW2. The percent recoveries and the relative percent differences (RPDs) were within the appropriate QC limits, with one exception. The percent recovery for trichloroethene in the matrix spike at 61% was below laboratory control limits of 62-137%. No qualification is taken based solely on MS/MSD data. Summary forms and raw data were evaluated.

7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

VOA: Yes X No _____

Comments: Internal standard area counts did not vary by more than a factor of two from the associated 12-hour calibration standard. The internal standard retention times did not vary more than \pm 30 seconds from the retention time of the associated 12-hour calibration standards. Summary forms and raw data were evaluated.

8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified limits.

VOA: Yes _____ No X

Comments: Method blank analyses were performed after the calibration standards and once for every 12-hour time period. A storage blank (VHBLK01) was also analyzed. Summary forms and raw data were evaluated.

Contamination was detected in the method blanks as summarized in the following table. Quantitation limits in the associated samples were raised in accordance with the rules set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Blank Target Compounds

Blank ID	Contaminant	Concentration Found in Blank (ug/Kg)	Associated Samples	Concentration Found in Sample (ug/Kg)	Qualifier/ Adjustment
VBLK30	Acetone	5.8	H2FW2	24	U
	Methylene chloride	3.1	H2FW1 H2FW2	<CRDL	6.4 U 5.7 U
	Toluene	3.4	H2FW1 H2FW2		6.4 U 5.7 U

Blank ID	Contaminant	Concentration Found in Blank (ug/Kg)	Associated Samples	Concentration Found in Sample (ug/Kg)	Qualifier/Adjustment
VBLK33	Methylene chloride	6.9	H2FW3 H2FW4 H2FW5 H2FW6 H2FW7 H2FW8 H2FW9	22 23 9.4 11 16 12 13	U
	Toluene	2.8	H2FW4 H2FW5 H2FW7 H2FW8 H2FW9	<CRDL 	5.9 U 5.9 U 5.9 U 6.1 U 6.0 U

The storage blank also reported acetone at 2.7 ug/Kg, methylene chloride at 6.9 ug/Kg, and toluene at 3.3 ug/Kg. No additional qualification was necessary because the sample results were either already qualified non-detect due to method blank contamination or the storage blank result was ultimately qualified as non-detect due to method blank contamination.

9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

VOA: Yes X No _____

Comments: Sample relative retention times (RRTs) were within \pm 0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within \pm 20% between standard and sample spectra. All samples results and CRQL were correctly calculated.

Tentatively identified compounds (TICs) were qualitatively assessed by a mass spectral library search. No qualification was applied to the TICs.

10. Additional Comments or Problems/Resolutions Not Addressed Above

VOA: Yes _____ No X

Comments: None.

ORGANIC DATA QUALITY ASSURANCE REVIEW**Region VIII****DATA QUALIFIER DEFINITIONS**

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality.

GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R - Reported value is "rejected." Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- J - The associated numerical value is an estimated quantity because the Quality Control criteria were not met.
- U J - The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound was not detected.
- N J - Estimated value of a tentatively identified compound. (Identified with a CAS number.)
ORGANICS analysis only.
- U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW1

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.01

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21879

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	13	U
75-15-0	Carbon disulfide	6.4	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	5.2	JB
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 18/10/07

0020

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW1

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.01

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21879

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	6.4	U
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.3	JB
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U
95-47-6	o-Xylene	6.4	U
179601-23-1	m, p-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U

64 UJ

SOM01.2 (6/2007)

✓ 17/7/09

0021

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW1

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.01	
Sample wt/vol: 5.000	(g/mL) G	Lab File ID: A21879	
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009	
% Moisture: not dec. 22		Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	11.00	93	JB
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 12/7/04

BBZ2

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW2

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.02

Sample wt/vol: 5.100 (g/mL) G

Lab File ID: A21880

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 14

Date Analyzed: 07/20/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	24	B
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	3.5	JB
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

8832

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.02
 Sample wt/vol: 5.100 (g/mL) G Lab File ID: A21880
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 14 Date Analyzed: 07/20/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	1.6	JB
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

SOM01.2 (6/2007)

0033

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW2

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.02	
Sample wt/vol: 5.100	(g/mL) G	Lab File ID: A21880	
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009	
% Moisture: not dec. 14		Date Analyzed: 07/20/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	9.92	16	J
02	Unknown-02	11.00	77	J
03	Unknown-03	12.97	19	J
04	Unknown-04	14.54	20	J
05	Unknown-05	14.77	16	J
06	Unknown-06	15.39	14	J
07	Unknown-07	15.56	27	J
08	Unknown-08	17.11	14	J
09	000105-05-5 Benzene, 1,4-diethyl-	18.28	19	NJ
10	000141-93-5 Benzene, 1,3-diethyl-	18.40	13	NJ
11	000527-84-4 Benzene, 1-methyl-2-(1-methyl	19.16	25	NJ
12	000095-93-2 Benzene, 1,2,4,5-tetramethyl-	19.93	44	NJ
13	001595-16-0 Benzene, 1-methyl-4-(1-methyl	20.08	18	NJ
14	056253-64-6 Benzene, (2-methyl-1-butenyl)	20.40	14	NJ
15	002049-95-8 Benzene, (1,1-dimethylpropyl)	20.92	24	NJ
16	017059-48-2 1H-Indene, 2,3-dihydro-1,6-di	21.29	22	NJ
17	Unknown-09	21.43	24	J
18	004920-99-4 Benzene, 1-ethyl-3-(1-methyle	21.66	17	NJ
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	60	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

0034

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.03
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: A21905
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 22 Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	13	U
75-15-0	Carbon disulfide	6.4	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	22	B
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

7/18/09

0065

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW3

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.03

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21905

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	6.4	U
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U
95-47-6	o-Xylene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U

SOM01.2 (6/2007)

0086

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW3

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.03

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21905

Level: (TRACE or LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	11.01	81	JB
02 050876-32-9	Cyclohexane, 1,1,3,5-tetramethyl	14.37	38	NJ
03	Unknown-02	14.79	30	J
04	Unknown-03	15.53	36	J
05	Unknown-04	16.00	41	J
06	Unknown-05	16.00	31	J
07	Unknown-06	16.06	43	J
08	Unknown-07	16.23	48	J
09	Unknown-08	16.37	47	J
10	Unknown-09	16.38	86	J
11	Unknown-10	16.41	42	J
12	Unknown-11	16.76	39	J
13	Unknown-12	16.79	73	J
14	Unknown-13	16.89	76	J
15	Unknown-14	16.89	70	J
16	Unknown-15	16.90	42	J
17	Unknown-16	17.20	72	J
18	Unknown-17	17.21	35	J
19	Unknown-18	17.26	36	J
20	Unknown-19	17.44	32	J
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 12/7/09

0067

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.04
 Sample wt/vol: 5.200 (g/mL) G Lab File ID: A21906
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 18 Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	5.9	U
79-20-9	Methyl acetate	5.9	U
75-09-2	Methylene chloride	23	B
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
110-82-7	Cyclohexane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
71-43-2	Benzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 7/17/09

0097

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW4

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.04

Sample wt/vol: 5.200 (g/mL) G

Lab File ID: A21906

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 18

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.9	U
108-87-2	Methylcyclohexane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.7	JB
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U
95-47-6	o-Xylene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U

5.9 UJ

SOM01.2 (6/2007)

0098

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW4

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.04	
Sample wt/vol: 5.200	(g/mL) G	Lab File ID: A21906	
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009	
% Moisture: not dec. 18		Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	3.04	7.3	J
02 000110-54-3	Hexane	5.21	12	NJ
03	Unknown-02	11.01	79	J
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 18/7/09

0099

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW5

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.05

Sample wt/vol: 5.400 (g/mL) G

Lab File ID: A21907

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorodifluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
67-64-1	Acetone	9.0	J
75-15-0	Carbon disulfide	5.9	U
79-20-9	Methyl acetate	5.9	U
75-09-2	Methylene chloride	9.4	B
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
110-82-7	Cyclohexane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
71-43-2	Benzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

0111

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW5

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.05

Sample wt/vol: 5.400 (g/mL) G

Lab File ID: A21907

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 22

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.9	U
108-87-2	Methylcyclohexane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.0	JB
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U
95-47-6	o-Xylene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U

5.9 UJ

SOM01.2 (6/2007)

0112

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW5

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.05	
Sample wt/vol: 5.400	(g/mL) G	Lab File ID: A21907	
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009	
% Moisture: not dec. 22		Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	11.01	83	JB
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/17/09

0113

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW6

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.06

Sample wt/vol: 5.800 (g/mL) G

Lab File ID: A21908

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 20

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	11	B
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

7/17/09

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW6

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.06

Sample wt/vol: 5.800 (g/mL) G

Lab File ID: A21908

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 20

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

SOM01.2 (6/2007)

8125

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW6

Lab Name: KAP TECHNOLOGIES, INC.	Contract:	EPW05032
Lab Code: KAP	Case No.:	38726 Mod. Ref No.: _____ SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.06
Sample wt/vol: 5.800	(g/mL) G	Lab File ID: A21908
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009
% Moisture: not dec. 20		Date Analyzed: 07/21/2009
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	10.45	22	J
02	Unknown-02	11.00	48	J
03	Unknown-03	11.40	20	J
04	Unknown-04	14.33	23	J
05	Unknown-05	15.01	31	J
06	Unknown-06	15.22	21	J
07	Unknown-07	15.57	46	J
08	Unknown-08	15.73	74	J
09	Unknown-09	15.83	24	J
10	Unknown-10	16.98	45	J
11	Unknown-11	17.23	42	J
12	Unknown-12	17.41	22	J
13	Unknown-13	17.42	61	J
14	Unknown-14	17.85	37	J
15	Unknown-15	17.89	48	J
16	Unknown-16	18.13	20	J
17	Unknown-17	18.22	22	J
18	Unknown-18	18.54	21	J
19	Unknown-19	18.63	21	J
20	Unknown-20	18.86	23	J
21	Unknown-21	19.09	22	J
22	Unknown-22	19.10	31	J
23	002958-76-1 Naphthalene, decahydro-2-meth	19.28	22	NJ
24	074645-98-0 Dodecane, 2,7,10-trimethyl-	20.06	41	NJ
25	Unknown-23	20.27	29	J
26	020836-11-7 1H-Indene, 2,3-dihydro-2,2-dim	20.40	25	NJ
27	017301-23-4 Undecane, 2,6-dimethyl-	20.78	84	NJ
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	96	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/17/09

#126

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW7

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.07

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21909

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 15

Date Analyzed: 07/21/2009

GC Column: RTX-VMS

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorodifluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	5.9	U
79-20-9	Methyl acetate	5.9	U
75-09-2	Methylene chloride	16	B
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
110-82-7	Cyclohexane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
71-43-2	Benzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 7/17/07

0186

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.07
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: A21909
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 15 Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.9	U
108-87-2	Methylcyclohexane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.2	JB
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U
95-47-6	o-Xylene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U

SOM01.2 (6/2007)

0167

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW7

Lab Name: KAP TECHNOLOGIES, INC.	Contract:	EPW05032
Lab Code: KAP	Case No.:	38726 Mod. Ref No.: _____ SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.07
Sample wt/vol: 5.000	(g/mL) G	Lab File ID: A21909
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009
% Moisture: not dec. 15		Date Analyzed: 07/21/2009
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	3.05	6.1	J
02	Unknown-02	11.01	80	J
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	15	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 10/7/09

0168

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW8

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.08

Sample wt/vol: 5.100 (g/mL) G

Lab File ID: A21910

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 19

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	6.1	U
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	12	B
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
110-82-7	Cyclohexane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
71-43-2	Benzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

✓ 7/17/07

0181

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW8

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726

Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.08

Sample wt/vol: 5.100 (g/mL) G

Lab File ID: A21910

Level: (TRACE/LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 19

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	6.1	U
108-87-2	Methylcyclohexane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	4.1	JB
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
95-47-6	o-Xylene	6.1	U
179601-23-1	m,p-Xylene	3.3	J
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U

6.1 UJ

SOM01.2 (6/2007)

7/16/09

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW8

Lab Name: KAP TECHNOLOGIES, INC.	Contract: EPW05032		
Lab Code: KAP	Case No.: 38726	Mod. Ref No.: _____	SDG No.: H2FW1
Matrix: (SOIL/SED/WATER)	SOIL	Lab Sample ID: S-2509.08	
Sample wt/vol: 5.100	(g/mL) G	Lab File ID: A21910	
Level: (TRACE or LOW/MED)	LOW	Date Received: 07/17/2009	
% Moisture: not dec. 19		Date Analyzed: 07/21/2009	
GC Column: RTX-VMS	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Purge Volume: 10.0 (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	11.01	84	JB
02 006783-92-2	Cyclohexane, 1,1,2,3-tetramethyl	15.73	21	NJ
03 002847-72-5	Decane, 4-methyl-	16.84	14	NJ
04	Unknown-02	17.11	6.9	J
05	Unknown-03	17.23	8.6	J
06 081983-71-3	Cyclohexane, 1,1-dimethyl-2-p	17.82	6.8	NJ
07 000099-87-6	Benzene, 1-methyl-4-(1-methyl	18.20	8.0	NJ
08	Unknown-04	22.79	6.5	J
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	6.9	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

✓ 10/7/09

#183

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.09
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: A21911
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 17 Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorodifluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	6.0	U
79-20-9	Methyl acetate	6.0	U
75-09-2	Methylene chloride	13	B
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
110-82-7	Cyclohexane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
71-43-2	Benzene	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (6/2007)

7/17/09

8283

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2FW9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032
 Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-2509.09
 Sample wt/vol: 5.000 (g/mL) G Lab File ID: A21911
 Level: (TRACE/LOW/MED) LOW Date Received: 07/17/2009
 % Moisture: not dec. 17 Date Analyzed: 07/21/2009
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
79-01-6	Trichloroethene	6.0	U
108-87-2	Methylcyclohexane	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.1	JB
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
95-47-6	o-Xylene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U

SOM01.2 (6/2007)

UT 10/7/09

3204

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2FW9

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: S-2509.09

Sample wt/vol: 5.000 (g/mL) G

Lab File ID: A21911

Level: (TRACE or LOW/MED) LOW

Date Received: 07/17/2009

% Moisture: not dec. 17

Date Analyzed: 07/21/2009

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown-01	11.01	88	JB
02				
03				
04				
05				
06				
07				
08				
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11				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A	33	J

¹ EPA-designated Registry Number.

SOM01.2 (6/2007)

7/17/09

0285

HOLDING TIMES

Method #: 10C
 Client & Batch #: H2Fw1

Validator/Date: L. Tysow
 Reviewer/Date: J.A.

Include samples, dilutions & reanalyses

#	SAMPLE NUMBER (per COC)	(If Applicable)		TEMP. 4°C (+2°C)	CONC. LEVEL/ MATRIX	Extractables	Extractables	ANAL. DATE - COLL. DATE	ANAL. DATE - EXT. DATE	Action Taken			COMMENTS (ANY PROBLEMS ESP. WITH SHIPPING, RECEIPT & SAMPLING CONDITION)
		COC # Form I Y/N	SAMPLE PRE- SERVED Y/N							VOA J(+) UJ (U)	Aromatic J ALL	J (+) R (U)	
1	72Fw1	4	re	19°C	S	7/15/09	N/A	7/20		5			
2	2					7/14/09		↓		6			
3	3					7/14/09		7/21		7			
4	4					7/15/09				6			
5	5					7/17/09				7			
6	6					7/17/09				↓			
7	7					7/15/09				6			
8	8					7/15/09				↓			
9	9	✓	✓	✓	✓	7/15/09		✓		✓			
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													

For all worksheets: (1) If a particular category is "Not Applicable," denote with N/A (2) Calculation checks performed by validators.

TUNING

Include samples, dilutions, reanalyses, calibrations & cal checks

TUNING COMPOUND	DATE & TIME TUNED	INSTRUMENT ID	ABUND. CRIT. MET Y/N	SAMPLE WITHIN ____ HR. TIME FRAME Y/N	FORM 5 #'S EQUAL RAW DATA Y/N	CALC. OK	HEADER INFO OK Y/N	ACTION/COMMENTS
TUNE 1:	DATE: <u>7/15</u> TIME: <u>0932</u>	A-5973	Y	Y	Y	Y	Y	
Associated samples:	I-(a)							G L
TUNE 2:	DATE: <u>7/20</u> TIME: <u>0706</u>	A-5973	Y	Y	Y	Y	Y	
Associated samples:	1, 2							
TUNE 3:	DATE: <u>7/21</u> TIME: <u>0706</u>	A-5973	Y	Y	Y	Y	Y	
Associated samples:	3, 4, 5, 6, 7, 8, 9							
TUNE 4:	DATE: <u>7/1 & 8/9</u> TIME: _____							
Associated samples:	a c							
TUNE 5:	DATE: _____ TIME: _____							
Associated samples:								
TUNE 6:	DATE: _____ TIME: _____							
Associated samples:								

INITIAL CALIBRATION

Include samples, dilutions, reanalyses, spikes & blanks

INITIAL CALIBRATION	DATE CALIBRATED	INSTRU- MENT ID	AVG RRF ≥ 0.05 Y/N	RS _D ≤ <u>20%</u> Y/N	1ST ORD.	2ND ORD.	CALCULATIONS CHECKS			COMMENTS & COMPOUNDS FAILING CRITERIA (Note if compounds are SPCC or CCC)
					CORR. COEF. r or r ² ≥ 0.99 Y/N	VALUES TRACE- ABLE Y/N	1 RRF PER I-CAL STND.	MIN 1 AVG. RRF & %RS _D	MIN. 1 CORR. COEF- ICIENT	
I-CAL 1:	7/13	2873	1) 1	2) ~	3) —	4) —	✓	✓	—	(1) Toluene 20.6 5/15
Associated samples: all										
I-CAL 2:			5)	6)	7)	8)				
Associated samples:										
I-CAL 3:			9)	10)	11)	12)				
Associated samples:										
I-CAL 4:			13)	14)	15)	16)				
Associated samples:										
I-CAL 5:			17)	18)	19)	20)				
Associated samples:										
I-CAL 6:			21)	22)	23)	24)				
Associated samples:										

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date(s): 07/15/2009 07/15/2009

Heated Purge: (Y/N) Y Calibration Time(s): 1129 1351

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID:	RRF 2.5	= A21785	RRF 5.0	= A21784			
RRF 25	= A21788	RRF 50	= A21787	RRF 100	= A21786		
COMPOUND	RRF 2.5	RRF 5.0	RRF 25	RRF 50	RRF 100	RRF	% RSD
Dichlorodifluoromethane	0.9164	0.8032	0.8355	0.8079	0.7692	0.8264	6.7
Chloromethane	1.2979	1.1566	1.1652	1.0864	0.9894	1.1391	10.0
Vinyl chloride	0.8011	0.7370	0.7390	0.7076	0.6498	0.7269	7.6
Bromomethane	0.3609	0.2834	0.2936	0.2863	0.2720	0.2992	11.8
Chloroethane	0.1897	0.1563	0.1642	0.1593	0.1582	0.1655	8.3
Trichlorofluoromethane	0.3895	0.3383	0.3381	0.3301	0.3354	0.3463	7.0
1,1-Dichloroethene	0.5484	0.4724	0.4964	0.4667	0.4311	0.4830	9.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6280	0.5295	0.5674	0.5491	0.5195	0.5587	7.7
Acetone	0.2015	0.1657	0.1512	0.1628	0.1607	0.1684	11.5
Carbon disulfide	1.9361	1.5810	1.7364	1.6936	1.5662	1.7027	8.8
Methyl acetate	0.4752	0.3645	0.4205	0.3922	0.3719	0.4049	11.1
Methylene chloride	0.5981	0.5314	0.5596	0.5250	0.5068	0.5442	6.5
trans-1,2-Dichloroethene	0.5894	0.5070	0.5348	0.5314	0.4924	0.5310	7.0
Methyl tert-butyl ether	1.0604	0.9620	1.2549	1.2082	1.1942	1.1359	10.7
1,1-Dichloroethane	1.2593	1.0303	1.1586	1.1300	1.0966	1.1350	7.4
cis-1,2-Dichloroethene	0.5411	0.4757	0.5658	0.5486	0.5296	0.5322	6.4
2-Butanone	0.2754	0.2354	0.2940	0.3138	0.3117	0.2861	11.3
Bromochloromethane	0.3070	0.2427	0.2595	0.2475	0.2381	0.2590	10.8
Chloroform	1.1633	0.9373	1.0255	0.9823	0.9578	1.0132	8.9
1,1,1-Trichloroethane	1.0289	0.9365	1.0563	1.0280	0.9739	1.0047	4.8
Cyclohexane	1.2754	1.2116	1.4468	1.3920	1.2594	1.3170	7.5
Carbon tetrachloride	0.8558	0.7640	0.8632	0.8632	0.8162	0.8325	5.2
Benzene	2.7594	2.3889	2.5853	2.4383	2.2172	2.4778	8.3
1,2-Dichloroethane	0.8970	0.7307	0.7950	0.7752	0.7799	0.7956	7.7
1,4-Dioxane	0.0064	0.0058	0.0077	0.0088	0.0088	0.0075	18.3
Trichloroethene	0.7556	0.6402	0.6736	0.6717	0.6135	0.6709	8.0
Methylcyclohexane	0.9790	0.9624	1.1603	1.1301	1.0245	1.0513	8.5

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date(s): 07/15/2009 07/15/2009

Heated Purge: (Y/N) Y Calibration Time(s): 1129 1351

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID:	RRF 2.5	= A21785	RRF 5.0	= A21784			
RRF 25	= A21788	RRF 50	= A21787	RRF 100	= A21786		
COMPOUND	RRF 2.5	RRF 5.0	RRF 25	RRF 50	RRF 100	RRF	% RSD
1,2-Dichloropropane	0.7238	0.6509	0.7668	0.7255	0.6865	0.7107	6.2
Bromodichloromethane	0.7981	0.6913	0.8311	0.8012	0.7864	0.7816	6.8
cis-1,3-Dichloropropene	0.9935	0.9005	1.0754	1.0333	0.9832	0.9972	6.5
4-Methyl-2-pentanone	0.4794	0.4585	0.7140	0.7411	0.6917	0.6169	22.1
Toluene	4.2899	3.4459	3.0168	2.8377	2.5886	3.2358	20.6
trans-1,3-Dichloropropene	0.8755	0.7827	0.9635	0.9202	0.8846	0.8853	7.6
1,1,2-Trichloroethane	0.5165	0.4255	0.4974	0.4681	0.4539	0.4723	7.6
Tetrachloroethene	0.5746	0.4999	0.5211	0.5269	0.4939	0.5233	6.1
2-Hexanone	0.3555	0.3646	0.5421	0.4908	0.4832	0.4472	18.5
Dibromochloromethane	0.5005	0.4529	0.5820	0.5710	0.5706	0.5354	10.5
1,2-Dibromoethane	0.4660	0.3764	0.4926	0.4683	0.4593	0.4525	9.8
Chlorobenzene	2.0712	1.7269	1.7271	1.7047	1.6340	1.7728	9.7
Ethylbenzene	3.3192	2.9542	3.0168	3.0539	2.9227	3.0534	5.2
o-Xylene	0.9503	0.9054	1.0759	1.0847	1.0523	1.0137	8.0
m,p-Xylene	1.2196	1.0747	1.1355	1.1431	1.0940	1.1334	4.9
Styrene	1.8321	1.6063	1.8171	1.8057	1.7299	1.7582	5.3
Bromoform	0.6079	0.5300	0.7561	0.7241	0.6758	0.6588	13.8
Isopropylbenzene	2.6454	2.5594	2.8134	2.9325	2.8446	2.7591	5.5
1,1,2,2-Tetrachloroethane	0.5931	0.4922	0.6307	0.5941	0.5722	0.5765	9.0
1,3-Dichlorobenzene	2.5452	2.2183	2.4270	2.4686	2.3469	2.4012	5.2
1,4-Dichlorobenzene	3.2667	2.6203	2.5409	2.5179	2.3599	2.6611	13.2
1,2-Dichlorobenzene	2.5398	2.1841	2.3311	2.2650	2.0749	2.2790	7.7
1,2-Dibromo-3-chloropropane	0.1675	0.1282	0.1880	0.1853	0.1768	0.1692	14.3
1,2,4-Trichlorobenzene	1.4526	1.1777	1.5289	1.5395	1.4834	1.4364	10.4
1,2,3-Trichlorobenzene	1.2807	1.0383	1.3910	1.3756	1.3034	1.2778	11.1

SOM01.1 (5/2005)

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date(s): 07/15/2009 07/15/2009

Heated Purge: (Y/N) Y Calibration Time(s): 1129 1351

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID:	RRF 2.5	= A21785	RRF 5.0	= A21784				
RRF 25	= A21788	RRF 50	= A21787	RRF 100	= A21786			
COMPOUND	RRF 2.5	RRF 5.0	RRF 25	RRF 50	RRF 100	RRF	% RSD	
Vinyl chloride-d3	0.3809	0.3653	0.4154	0.3781	0.3644	0.3808	5.4	
Chloroethane-d5	0.1313	0.1367	0.1541	0.1420	0.1498	0.1428	6.5	
1,1-Dichloroethene-d2	1.0586	0.9529	1.1085	1.0476	1.0145	1.0364	5.6	
2-Butanone-d5	1.1945	1.3312	1.7695	1.6147	1.5757	1.4971	15.4	
Chloroform-d	0.8951	0.8427	0.9460	0.8893	0.8954	0.8937	4.1	
1,2-Dichloroethane-d4	0.5268	0.4995	0.5611	0.5287	0.5466	0.5325	4.4	
Benzene-d6	1.8835	1.7930	2.0855	1.9230	1.8161	1.9002	6.1	
1,2-Dichloropropane-d6	0.6080	0.5999	0.7254	0.6730	0.6530	0.6519	7.9	
Toluene-d8	1.7291	1.7350	2.0454	1.9342	1.8979	1.8683	7.3	
trans-1,3-Dichloropropene-d4	0.6134	0.6452	0.8257	0.7651	0.7557	0.7210	12.3	
2-Hexanone-d5	0.1077	0.1497	0.2644	0.2457	0.2431	0.2021	34.2	
1,4-Dioxane-d8	0.0052	0.0044	0.0058	0.0071	0.0073	0.0060	20.8	
1,1,2,2-Tetrachloroethane-d2	0.5276	0.5051	0.6510	0.5951	0.5929	0.5743	10.2	
1,2-Dichlorobenzene-d4	1.3930	1.4027	1.5601	1.4775	1.4045	1.4476	4.9	

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SOM01.1 (5/2005)

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date: 07/20/2009 Time: 1611

Lab File ID: A21887 Init. Calib Date(s): 07/15/2009 07/15/2009

EPA Sample No. (VSTD#####): VSTD02531 Init. Calib Time(s): 1129 1351

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	RRF	RRF 25	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8264	0.5960	0.010	-27.9	50.0
Chloromethane	1.1391	0.8314	0.010	-27.0	50.0
Vinyl chloride	0.7269	0.5831	0.010	-19.8	50.0
Bromomethane	0.2992	0.1707	0.010	-42.9	50.0
Chloroethane	0.1655	0.1010	0.010	-39.0	50.0
Trichlorofluoromethane	0.3463	0.2020	0.010	-41.7	50.0
1,1-Dichloroethene	0.4830	0.3820	0.010	-20.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5587	0.4290	0.010	-23.2	50.0
Acetone	0.1684	0.1054	0.010	-37.4	50.0
Carbon disulfide	1.7027	1.3491	0.010	-20.8	50.0
Methyl acetate	0.4049	0.3279	0.010	-19.0	50.0
Methylene chloride	0.5442	0.6188	0.010	13.7	50.0
trans-1,2-Dichloroethene	0.5310	0.4286	0.010	-19.3	50.0
Methyl tert-butyl ether	1.1359	0.9375	0.010	-17.5	50.0
1,1-Dichloroethane	1.1350	0.8818	0.010	-22.3	50.0
cis-1,2-Dichloroethene	0.5322	0.4378	0.010	-17.7	50.0
2-Butanone	0.2861	0.2059	0.010	-28.0	50.0
Bromochloromethane	0.2590	0.1987	0.010	-23.3	50.0
Chloroform	1.0132	0.7524	0.010	-25.7	50.0
1,1,1-Trichloroethane	1.0047	0.7366	0.010	-26.7	50.0
Cyclohexane	1.3170	1.0890	0.010	-17.3	50.0
Carbon tetrachloride	0.8325	0.5923	0.010	-28.9	50.0
Benzene	2.4778	1.9311	0.010	-22.1	50.0
1,2-Dichloroethane	0.7956	0.5663	0.010	-28.8	50.0
1,4-Dioxane	0.0075	0.0050	0.0050	-33.3	50.0
Trichloroethene	0.6709	0.4974	0.010	-25.9	50.0
Methylcyclohexane	1.0513	0.8984	0.010	-14.5	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.1 (5/2005)

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date: 07/20/2009 Time: 1611

Lab File ID: A21887 Init. Calib Date(s): 07/15/2009 07/15/2009

EPA Sample No. (VSTD#####): VSTD02531 Init. Calib Time(s): 1129 1351

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	RRF	RRF 25	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.7107	0.5481	0.010	-22.9	50.0
Bromodichloromethane	0.7816	0.5606	0.010	-28.3	50.0
cis-1,3-Dichloropropene	0.9972	0.7742	0.010	-22.4	50.0
4-Methyl-2-pentanone	0.6169	0.4568	0.010	-26.0	50.0
Toluene	3.2358	2.2893	0.010	-29.3	50.0
trans-1,3-Dichloropropene	0.8853	0.6768	0.010	-23.6	50.0
1,1,2-Trichloroethane	0.4723	0.3481	0.010	-26.3	50.0
Tetrachloroethene	0.5233	0.4204	0.010	-19.7	50.0
2-Hexanone	0.4472	0.3418	0.010	-23.6	50.0
Dibromochloromethane	0.5354	0.4051	0.010	-24.3	50.0
1,2-Dibromoethane	0.4525	0.3391	0.010	-25.1	50.0
Chlorobenzene	1.7728	1.3802	0.010	-22.1	50.0
Ethylbenzene	3.0534	2.4925	0.010	-18.4	50.0
o-Xylene	1.0137	0.8788	0.010	-13.3	50.0
m,p-Xylene	1.1334	0.9622	0.010	-15.1	50.0
Styrene	1.7582	1.4733	0.010	-16.2	50.0
Bromoform	0.6588	0.4908	0.010	-25.5	50.0
Isopropylbenzene	2.7591	2.4220	0.010	-12.2	50.0
1,1,2,2-Tetrachloroethane	0.5765	0.4293	0.010	-25.5	50.0
1,3-Dichlorobenzene	2.4012	1.9306	0.010	-19.6	50.0
1,4-Dichlorobenzene	2.6611	1.9830	0.010	-25.5	50.0
1,2-Dichlorobenzene	2.2790	1.7413	0.010	-23.6	50.0
1,2-Dibromo-3-chloropropane	0.1692	0.1221	0.010	-27.8	50.0
1,2,4-Trichlorobenzene	1.4364	1.1764	0.010	-18.1	50.0
1,2,3-Trichlorobenzene	1.2778	1.0014	0.010	-21.6	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC.

Contract: EPW05032

Lab Code: KAP Case No.: 38726 Mod. Ref No.: _____ SDG No.: H2FW1

Instrument ID: A-5973 Calibration Date: 07/20/2009 Time: 1611

Lab File ID: A21887 Init. Calib Date(s): 07/15/2009 07/15/2009

EPA Sample No. (VSTD#####): VSTD02531 Init. Calib Time(s): 1129 1351

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	RRF	RRF 25	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.3808	0.3298	0.010	-13.4	50.0
Chloroethane-d5	0.1428	0.0991	0.010	-30.6	50.0
1,1-Dichloroethene-d2	1.0364	0.8108	0.010	-21.8	50.0
2-Butanone-d5	1.4971	1.2970	0.010	-13.4	50.0
Chloroform-d	0.8937	0.7281	0.010	-18.5	50.0
1,2-Dichloroethane-d4	0.5325	0.4121	0.010	-22.6	50.0
Benzene-d6	1.9002	1.6083	0.010	-15.4	50.0
1,2-Dichloropropane-d6	0.6519	0.5367	0.010	-17.7	50.0
Toluene-d8	1.8683	1.6216	0.010	-13.2	50.0
trans-1,3-Dichloropropene-d4	0.7210	0.6040	0.010	-16.2	50.0
2-Hexanone-d5	0.2021	0.1870	0.010	-7.5	50.0
1,4-Dioxane-d8	0.0060	0.0039	0.0050	-35.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.5743	0.4572	0.010	-20.4	50.0
1,2-Dichlorobenzene-d4	1.4476	1.2311	0.010	-15.0	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SOM01.1 (5/2005)